



ELECTRIC DOUBLE-DECKER MULTIPLE UNIT KISS

Azerbaijan Railways (ADY), Azerbaijan

In May 2015, Azerbaijan Railways (ADY) ordered five KISS electric double-decker multiple units from Stadler. The trains serve the route between Baku and Sumqayit. With the four-car trains, the demand for high-quality public transport services in Azerbaijan is being met. The trains are designed for a running speed of 160 km/h and can accommodate 919 passengers. Thanks to a bright, spacious interior, comfortable seats and a modern information system, the passengers enjoy complete comfort. The generously dimensioned entrance areas guarantee optimum passenger flow. The trains are air-conditioned, with the systems adjusted especially to Azerbaijan's climatic conditions. WLAN is available throughout the train.

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Technical features

Technology

- Car body made of extruded aluminium profiles
- Motor bogies and trailer bogies with pneumatic suspension
- Vehicle control system with train bus and diagnostics computer (CANopen bus)

Comfort

- HVAC systems for passenger compartment and driver's cab, adjusted to Azerbaijan's climatic conditions
- Generously dimensioned entrance areas for optimum passenger flow
- 8 entrance doors on each side for a rapid passenger flow
- Vacuum toilet systems in every carriage, including one per train with disabled access

Personnel

- Ergonomically designed driver's cab
- Multiple unit train control for up to three trains

Reliability / Availability / Maintainability / Safety

- Redundant drive equipment with 3 power trains with water-cooled IGBT power converters

Vehicle data

Customer	Azerbaijan Railways
Line serviced	Baku-Sumqayit
Gauge	1524 mm
Supply voltage	3 kV direct current
Axle arrangement	2'2'+Bo'2'+Bo'Bo'+2'2'
Number of vehicles	5
Commissioning	2015
Seats (first + second class)	84 + 312
Tip-up seats	8
Standing capacity (7 pers./m²)	523
Floor height	
Entrance door	1285 mm
Lower deck	685 mm
Upper deck	2974 mm
Entrance width	1400 mm
Headroom	2150 mm
Length over coupling	101700 mm
Vehicle width	3400 mm
Vehicle height	5240 mm
Bogie wheelbase	
Motor bogie	2500 mm
Trailer bogie	2500 mm
Driving wheel diameter, new	920 mm
Carrying wheel diameter, new	920 mm
Continuous output at wheel	2400 kW
Maximum output at wheel	3900 kW
Starting tractive effort (up to 54 km/h)	300 kN
Starting acceleration up to 60 km/h	0,8 m/s ²
Maximum speed	160 km/h